

Work Order ID 143503

Tuesday, March 15, 2016 10:29:23 AM

143503

Page 1

Ship March 29th

Item ID: 647.3703 Accept ***N900040100*** Setup Start ***NS1***
 Revision ID: Stop ***NS2***
 Item Name: 204,205,212,214 Cable Cutter System, Standard
 Start Date: 3/16/2016 Start Qty: 1.00 ***1*** Cust Item ID:
 Required Date: 3/29/2016 Req'd Qty: 1.00 ***1*** Customer:
 Reference:

Approvals: Process Plan: UNC Date: 16-3-15 Tooling: _____ Date: _____ Run Start ***NR1***
 QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
647.3700	NC3								

100 DOCUMENT CONTROL 0.00
100
 DC Memo 0.00
 Doc.Control -USB or Paperwork Photocopy bluefile & type labels per PPP 647.3703

DAS
6
9-89

Sms
16/3/29

110 Pick Kit 0.00
110
 Packaging Memo 0.00
 Packaging

DAS
6
9-89

DAS
28
9-89

MAR 23 2016

120 QC4- 100% Inspect kits for completeness 0.00
120
 QC Memo 0.00
 Quality Control

Sms
16/3/29

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition			
				Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : ☐					

Work Order ID 143503

Tuesday, March 15, 2016 10:29:24 AM

143503

Page 2

Item ID: 647.3703

Accept

N900040100Setup Start ***NS1***

Revision ID:

Stop ***NS2***

Item Name: 204,205,212,214 Cable Cutter System, Standard

Start Date: 3/16/2016 Start Qty: 1.00 ***1***

Cust Item ID:

Required Date: 3/29/2016 Req'd Qty: 1.00 ***1***

Customer:

Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

Run Start ***NR1***

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
130	Packaging	0.00							
130									
Packaging	Memo	0.00							
Packaging	Identify and pack for shipping as per PPP 647.3703 Location: _____								
140	QC21- Final Inspection - Work Order Release	0.00							
140									
QC	Memo	0.00							
Quality Control									

BAS
27
9-89

MAR 20 2016

MCS

MAR 29 2016

20160329

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval 		
Description Work Order Deviation				Disposition					
							Completed By		
							Lead hand / Supervisor Approval Verification		
							QC / QA Coordinator Approval		

Root Cause				FAULT CATEGORY			
Environment ☐		No Re-verification ☐		Pressure/Forced ☐		Temperature/Cure ☐	
Design ☐		Operator ☐		Bending ☐		Set-up ☐	
Doc/Data ☐		Offset/Setup ☐		Centre Not Concentric ☐		BOM/Route ☐	
Equip/Tooling ☐		Supplier ☐		Cracks ☐		Broken/Damage/Defect ☐	
Handling/Pre ☐		Training ☐		Crimp/Kink/Ripple/Wave ☐		Inspection Incomplete/Unqualified ☐	
Material ☐		Use for Testing ☐		Cuffs ☐		Contamination ☐	
Internal Transport ☐		Poor Information ☐		Crushing ☐		Countersink ☐	
Tribal Knowledge ☐		Rushing ☐		Heat Treat ☐		Cut Too Short ☐	
LOA ☐		Product Improvement ☐		Wave/Twist in Tube ☐		Instructions Incomplete/Unclear ☐	
Substation ☐		Process Improvement ☐		Marks/Chatter ☐		Drill Holes ☐	
Past Expiry Date ☐		Manufacturing Process ☐		OTHER : ☐			
Misidentified ☐		Past Due ☐					

Tuesday, March 15, 2016 10:29:19 AM

Page 1

143503

647 3703

Required Date: 3/29/2016

Required Qty: 1.00

IPP
IPP REV: C AS

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
601.3082		Purchased	No				Each	3.0000		CR3212-4-2			
* <u>601-3082*</u>									**	3 x M133363		DAS 6 9-89	DAS 28 9-89
RIVET													
				<u>Location</u>			<u>Loc Qty</u>	<u>Loc Code</u>					
				CCK099			3						
				m129702			3			3			
647.3903		Manufactured	No				Each	0.0000		1			
* <u>647-3903*</u>									**	143509		DAS 6 9-89	DAS 28 9-89
Deflector Assembly													
647.3802		Manufactured	No			110	Each	14.0000		1			
* <u>647-3802*</u>									**	1			
212 Upper Cutter Assy													
				<u>Location</u>			<u>Loc Qty</u>	<u>Loc Code</u>					
				cck030			14						
				124717			12						
				124723			2						
647.3803		Manufactured	No			110	Each	0.0000		1			
* <u>647-3803*</u>									**	1			
Lower Cutter Assembly										143570		DAS 6 9-89	DAS 28 9-89

MAR 23 2016

EAS
27
9-59

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐							
Date :		Step #:		QTY Effective :				MRB (QSI042) Approval			
Description Work Order Deviation				Disposition				Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval			
Root Cause		FAULT CATEGORY									
Environment	☐	No Re-verification	☐	Pressure/Forced	☐	Temperature/Cure	☐	Power Loss/Surge	☐	Positioned Wrong	☐
Design	☐	Operator	☐	Bending	☐	Set-up	☐	Folio/Program	☐	Outside Dimensions	☐
Doc/Data	☐	Offset/Setup	☐	Centre Not Concentric	☐	BOM/Route	☐	Grain	☐	Over/Under tolerance	☐
Equip/Tooling	☐	Supplier	☐	Cracks	☐	Broken/Damage/Defect	☐	Weld	☐	Part Incorrect	☐
Handling/Pre	☐	Training	☐	Crimp/Kink/Ripple/Wave	☐	Inspection Incomplete/Unqualified	☐	Wrong Stock Pulled	☐	Part Lost/Missing	☐
Material	☐	Use for Testing	☐	Cuffs	☐	Contamination	☐	Out of Sequence	☐	Part Moved	☐
Internal Transport	☐	Poor Information	☐	Crushing	☐	Countersink	☐	Off-set	☐	Drawing	☐
Tribal Knowledge	☐	Rushing	☐	Heat Treat	☐	Cut Too Short	☐	Mislabeled	☐	Finish	☐
LOA	☐	Product Improvement	☐	Wave/Twist in Tube	☐	Instructions Incomplete/Unclear	☐	Fit/Function	☐	Misread	☐
Substation	☐	Process Improvement	☐	Marks/Chatter	☐	Drill Holes	☐	Misaligned/off center	☐	Turning Sequence	☐
Past Expiry Date	☐	Manufacturing Process	☐	OTHER :							
Misidentified	☐	Past Due	☐								

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition			
				Completed By	
				Lead hand / Supervisor Approval Verification	
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Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : ☐					

Picklist Print

Tuesday, March 15, 2016 10:29:19 AM

Page 3

Work Order ID: 143503

143503

Parent Item: 647.3703

647 3703

Parent Item Name: 204,205,212,214 Cable Cutter System, Standard

Start Date: 3/16/2016

Required Date: 3/29/2016

Start Qty: 1.00

Required Qty: 1.00

647.4111
647 4111
Doubler

Manufactured No

110 Each

19.0000

**

1

DAS
6
9-89
DAS
28
9-89

Location

Loc Qty

Loc Code

cck111

19

120743

16

120967

3

647.4112
647 4112
Clip

Manufactured No

110 Each

7.0000

**

1

DAS
6
9-89
DAS
28
9-89

Location

Loc Qty

Loc Code

CCK112

7

126770

7

647.4113
647 4113
Clip

Manufactured No

110 Each

7.0000

**

1

DAS
6
9-89
DAS
28
9-89

Location

Loc Qty

Loc Code

CCK112

7

126771

7

647.4114
647 4114
Shim

Manufactured No

110 Each

43.0000

**

2

DAS
6
9-89
DAS
28
9-89

Location

Loc Qty

Loc Code

CCK112

43

120635

14

120746

28

120941

1

CAS
27
9-89

MAR 23 2016

Tuesday, March 15, 2016 10:29:19 AM

Shop Packet Print

Page 3

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
		OTHER : ☐ _____			

Picklist Print

Tuesday, March 15, 2016 10:29:19 AM

Page 4

Work Order ID: 143503

143503

Parent Item: 647.3703

647 3703

Parent Item Name: 204,205,212,214 Cable Cutter System, Standard

Start Date: 3/16/2016

Required Date: 3/29/2016

Start Qty: 1.00

Required Qty: 1.00

647.4115
647 4115

Shim
DAS
27
9-89

Manufactured No

110 Each

28.0000

** 2 2

DAS
6
9-89
DAS
28
9-89

Location

Loc Qty

Loc Code

CCK112

28

120747

28

Manufactured No

110 Each

23.0000

** 1 1

647.4116
647 4116

Shim
DAS
27
9-89

Location

Loc Qty

Loc Code

CCK112

23

120748

3

121064

20

Manufactured No

110 Each

18.0000

** 1 1

647.4210
647 4210

Bracket LH

Location

Loc Qty

Loc Code

CCK112

4

120749

4

CCK123

14

121086

14

Manufactured No

110 Each

18.0000

** 1 1

647.4211
647 4211

Bracket RH

Location

Loc Qty

Loc Code

CCK112

3

120750

3

CCK123

15

121134

15

DAS
27
9-89

DAS
6
9-89
DAS
28
9-89

MAR 23 2016

Tuesday, March 15, 2016 10:29:19 AM

Shop Packet Print

Page 4

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition			
				Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : ☐					

Picklist Print

Tuesday, March 15, 2016 10:29:19 AM

Page 5

Work Order ID: 143503

143503

Parent Item: 647.3703

647 3703

Parent Item Name: 204,205,212,214 Cable Cutter System, Standard

Start Date: 3/16/2016

Required Date: 3/29/2016

Start Qty: 1.00

Required Qty: 1.00

647.4212 Manufactured No 110 Each 6.0000 1 1
647.4212 **
 Plate
 DAS 28
 6 9-89

Location Loc Qty Loc Code
 CCK112 6
 120945 1
 m129702 5

647.4311 Manufactured No 110 Each 3.0000 1 1
647.4311 **
 RH Lower Strut

Location Loc Qty Loc Code
 CCK67 3
 126398 3

647.4310 Manufactured No 110 Each 22.0000 1 1
647.4310 **
 LH Lower Strut

Location Loc Qty Loc Code
 cck066 22
 126395 19
 126396 3

647.4312 Manufactured No 110 Each 3.0000 1 1
647.4312 **
 LH Upper Strut

Location Loc Qty Loc Code
 CCK67 3
 126399 3

MAR 23 2016

Tuesday, March 15, 2016 10:29:19 AM

Shop Packet Print

Page 5

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

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Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : ☐					

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Tuesday, March 15, 2016 10:29:19 AM

Page 6

Work Order ID: 143503

143503

Parent Item: 647.3703

647 3703

Parent Item Name: 204,205,212,214 Cable Cutter System, Standard

Start Date: 3/16/2016

Required Date: 3/29/2016

Start Qty: 1.00

Required Qty: 1.00

647.4313

Manufactured No

110 Each

3.0000

1

647 4313

RH Upper Strut

CAS
27
9-89

Location

Loc Qty

Loc Code

cck068

3

126401

3

110 Each

3,599.000

** 34

34

DAS
6
9-89

DAS
28
9-89

NAS1149FN832P

Purchased No

NAS1149FN832P

Washer

Location

Loc Qty

Loc Code

GA

1289

M133316

16

M133769

1273

ST260a

1200

M134257

1200

ST262

1110

M133709

1110

110 Each

2,668.000

** 157

157

DAS
6
9-89
28
9-89

NAS1149F0332P

Purchased No

NAS1149F0332P

Washer

Location

Loc Qty

Loc Code

GA

384

m133709

384

ST262

2284

m134134

784

m134257

1500

CAS
27
9-89

MAR 23 2016

Tuesday, March 15, 2016 10:29:19 AM

Shop Packet Print

Page 6

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

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Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :	MRB (QSI042) Approval		
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐
OTHER : ☐					

Picklist Print

Tuesday, March 15, 2016 10:29:19 AM

Page 7

Work Order ID: 143503

143503

Parent Item: 647.3703

647 3703

Parent Item Name: 204,205,212,214 Cable Cutter System, Standard

Start Date: 3/16/2016

Required Date: 3/29/2016

Start Qty: 1.00

Required Qty: 1.00

MS27039-1-07

Purchased

No

110

Each

357.0000

12

12

MS27039-1-07

Screw

**

DAS 28
6 9-89

Location

Loc Qty

Loc Code

GA

334

125654

334

ST281

23

m127813

23

110

Each

428.0000

42

42

**

DAS 28
6 9-89

MS27039-1-10

Purchased

No

MS27039-1-10

SCREW

Location

Loc Qty

Loc Code

CA

41

m128635

41

GA

50

m129541

50

ST280

337

m134166

37

m134370

300

110

Each

111.0000

16

16

**

DAS 28
6 9-89

MS27039-08-08

Purchased

No

MS27039-08-08

Screw

Location

Loc Qty

Loc Code

CA

8

m130113

8

ST278

103

m130799

3

m134142

100

DAS 27
9-89

MAR 23 2016

Tuesday, March 15, 2016 10:29:20 AM

Shop Packet Print

Page 7

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Description Work Order Deviation		Disposition			

Root Cause	Pressure/Forced	Temperature/Cure	FAULT CATEGORY
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐
			Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐
			Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐
OTHER : _____			

Picklist Print

Tuesday, March 15, 2016 10:29:20 AM

Page 8

Work Order ID: 143503

143503

Parent Item: 647.3703

647 3703

Parent Item Name: 204,205,212,214 Cable Cutter System, Standard

Start Date: 3/16/2016

Required Date: 3/29/2016

Start Qty: 1.00

Required Qty: 1.00

MS27039-1-09

Purchased

No

110

Each

265.0000

14

MS27039-1-09

Screw

DAS
27
9-89

Location

Loc Qty

Loc Code

FP001

34

18057

34

GA

36

124859

36

ST280

195

m134167

195

110

Each

356.0000

2

MS27039-08-11

Purchased

No

MS27039-08-11

SCREW

DAS
27
9-89

Location

Loc Qty

Loc Code

ST278

356

m133769

356

110

Each

225.0000

1

MS24694-S49

Purchased

No

MS24694-S49

Screw

DAS
27
9-89

Location

Loc Qty

Loc Code

ST284

225

m129499

100

m129702

125

110

Each

104.0000

8

MS24694-C53

Purchased

No

MS24694-C53

Screw

DAS
27
9-89

Location

Loc Qty

Loc Code

ST285

104

m129702

104

DAS
6
9-89

DAS
28
9-89

DAS
6
9-89

DAS
28
9-89

DAS
6
9-89

DAS
28
9-89

DAS
6
9-89

DAS
28
9-89

MAR 23 2016

Tuesday, March 15, 2016 10:29:20 AM

Shop Packet Print

Page 8

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐		Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐					
		OTHER : ☐							

Picklist Print

Tuesday, March 15, 2016 10:29:20 AM

Page 9

Work Order ID: 143503

143503

Parent Item: 647.3703

647 3703

Parent Item Name: 204,205,212,214 Cable Cutter System, Standard

Start Date: 3/16/2016

Required Date: 3/29/2016

Start Qty: 1.00

Required Qty: 1.00

601.3073

Purchased No

110 Each

3.0000

1

601.3073

Connector

**

DAS
6
9-89
28
9-89

Location

Loc Qty

Loc Code

CCK099

3

M133781

3

110

Each

117.0000

3

AN3-4A

Purchased No

AN3-4A

Bolt

**

DAS
6
9-89
28
9-89

Location

Loc Qty

Loc Code

ST350

117

m133990

117

110

Each

191.0000

8

AN3-11A

Purchased No

AN3-11A

Bolt

**

DAS
6
9-89
28
9-89

Location

Loc Qty

Loc Code

ST349

191

m134167

191

110

Each

22.0000

2

AN3C10A

Purchased No

AN3C10A

Bolt

**

DAS
6
9-89
28
9-89

Location

Loc Qty

Loc Code

ST349

22

m128634

2

m134167

20

DAS
27
9-89

MAR 23 2016

Tuesday, March 15, 2016 10:29:20 AM

Shop Packet Print

Page 9

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition			
				Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY			
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____			
Misidentified ☐	Past Due ☐				

Picklist Print

Tuesday, March 15, 2016 10:29:20 AM

Page 10

Work Order ID: 143503

143503

Parent Item: 647.3703

647 3703

Parent Item Name: 204,205,212,214 Cable Cutter System, Standard

Start Date: 3/16/2016

Required Date: 3/29/2016

Start Qty: 1.00

Required Qty: 1.00

CR3212-4-2

Purchased No

110

Each

50.0000

5

5

DAS 6

9-89 DAS

CR3212-4-2

Cherry Rivet

DAS 27 9-89

Location

Loc Qty

Loc Code

ST321

50

m133363

50

110

Each

0.0000

17

17

DAS 6

9-89

CR3212-4-3

Purchased No

CR3212-4-3

Cherry Rivet

DAS 27

CR3212-4-4

CR3212-4-04

Purchased No

110

Each

0.0000

7

7

DAS 28

9-89

CR3212-4-4

CHERRY RIVET

DAS 27

CCR264SS3-04

Purchased No

110

Each

559.0000

12

12

DAS 6

9-89

DAS 28

9-89

CCR264SS3-04

Rivet

DAS 27 9-89

Location

Loc Qty

Loc Code

CCK004

400

123785

400

ST321

159

m129702

159

110

Each

365.0000

16

16

DAS 6

9-89

DAS 28

9-89

CCR264SS-3-03

Purchased No

CCR264SS-3-03

Rivet

DAS 27 9-89

Location

Loc Qty

Loc Code

LG001

165

m128606

33

m134023

132

ST321

200

m134396

200

DAS 6

9-89

DAS 28

9-89

MAR 23 2016

Tuesday, March 15, 2016 10:29:20 AM

Shop Packet Print

Page 10

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :				MRB (QSI042) Approval	
Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : ☐							
Misidentified ☐	Past Due ☐								

Picklist Print

Tuesday, March 15, 2016 10:29:20 AM

Page 11

Work Order ID: 143503

143503

Parent Item: 647.3703

647 3703

Parent Item Name: 204,205,212,214 Cable Cutter System, Standard

Start Date: 3/16/2016

Required Date: 3/29/2016

Start Qty: 1.00

Required Qty: 1.00

CR3213-4-2

Purchased

No

110

Each

347.0000

31

31

CR3213-4-2

Cherry Rivet

DAS
27
9-89

Location

Loc Qty

Loc Code

CCK003

192

123301

192

ST319

155

m131340

155

DAS DAS
6 28
9-89 9-89

CR3213-4-3

Purchased

No

110

Each

522.0000

24

24

CR3213-4-3

Rivet, Cherry

**

Location

Loc Qty

Loc Code

CCK004

140

m129541

100

m130388

40

ST318

200

m131340

200

ST320

182

123301

182

DAS DAS
6 28
9-89 9-89

CR3213-4-4

Purchased

No

110

Each

235.0000

16

16

CR3213-4-4

Rivet, Cherry

**

Location

Loc Qty

Loc Code

CCK005

100

M134376

100

ST319

35

M130388

35

ST320

100

M133694

100

DAS
6
9-89
MAR 23 2016
DAS
28
9-89

DAS
27
9-89

Tuesday, March 15, 2016 10:29:20 AM

Shop Packet Print

Page 11

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date : _____		Step #: _____		QTY Effective : _____			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐							
		OTHER : _____							

Picklist Print

Tuesday, March 15, 2016 10:29:20 AM

Page 12

Work Order ID: 143503

143503

Parent Item: 647.3703

647 3703

Parent Item Name: 204,205,212,214 Cable Cutter System, Standard

Start Date: 3/16/2016

Required Date: 3/29/2016

Start Qty: 1.00

Required Qty: 1.00

CR3213-4-5

Purchased No

110 Each

225.0000

28

28

CR3213-4-5

Rivet

**

134167

DAS
6
9-89
DAS
28
9-89

Location

Loc Qty

Loc Code

CCK003

100

M129913

100

ST319

125

M129913

125

DAS
6
9-89

CR3213-4-8

Purchased No

110 Each

120.0000

4

CR3213-4-8

Rivet

**

DAS
28
9-89

Location

Loc Qty

Loc Code

ST319

120

120

MS21042-3

MS21042L3

Purchased No

110 Each

18.0000

79

79

MS21042-3

Nut / use MS21042L3

**

134039

DAS
6
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

ST304

18

M129682

18

MS21042-08

MS21042L08

Purchased No

110 Each

33.0000

18

18

MS21042-08

USE MS21042L08

**

133928

DAS
6
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

ST304

25

122815

25

ST306

8

m130388

8

DAS
27
9-89

MAR 23 2016

Tuesday, March 15, 2016 10:29:20 AM

Shop Packet Print

Page 12

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐
OTHER : ☐					

Picklist Print

Tuesday, March 15, 2016 10:29:20 AM

Page 13

Work Order ID: 143503

143503

Parent Item: 647.3703

647 3703

Parent Item Name: 204,205,212,214 Cable Cutter System, Standard

Start Date: 3/16/2016

Required Date: 3/29/2016

Start Qty: 1.00

Required Qty: 1.00

MS21047L06

Purchased

No

110

Each

70.0000

6

MS210471 06

Nut Plate

**

DAS 28 9-89

Location

Loc Qty

Loc Code

ST303

70

m131340

70

110

Each

63.0000

6

MS21047L08

Purchased

No

MS210471 08

Nut Plate

**

DAS 28 9-89

Location

Loc Qty

Loc Code

ST301

63

m129702

63

110

Each

185.0000

4

MS21047-3

Purchased

No

MS21047-3

Nut Plate

**

DAS 28 9-89

Location

Loc Qty

Loc Code

ST301

185

m134166

185

110

Each

208.0000

4

MS21071L3

Purchased

No

MS210711 3

ANCHOR NUT

**

DAS 28 9-89

Location

Loc Qty

Loc Code

ST299

108

124291

4

m129702

104

ST301

100

125654

100

DAS 27 9-89

MAR 23 2016

Tuesday, March 15, 2016 10:29:20 AM

Shop Packet Print

Page 13

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval 		
Description Work Order Deviation				Disposition					
								Completed By	
								Lead hand / Supervisor Approval Verification	
						QC / QA Coordinator Approval			
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : ☐							
Misidentified ☐	Past Due ☐								

Picklist Print

Tuesday, March 15, 2016 10:29:20 AM

Page 14

Work Order ID: 143503

143503

Parent Item: 647.3703

647 3703

Parent Item Name: 204,205,212,214 Cable Cutter System, Standard

Start Date: 3/16/2016

Required Date: 3/29/2016

Start Qty: 1.00

Required Qty: 1.00

601.3083

Manufactured No

110 Each

11.0000

1

601 3083

Adhesive Rubber Seal

**

DAS

28

9-89

Location

Loc Qty

Loc Code

cck009

11

130723

1

m134349

10

601.1012

600.1012

Purchased No

110 Each

0.0000

1

601 1012

Sealant (One 6 oz)

**

DAS

28

9-89

601.2045

Purchased No

110 Each

18.0000

1

601 2045

RTV (LOCTITE 598)McMaster p/n: 6641A41

**

DAS

28

9-89

Location

Loc Qty

Loc Code

CCK096

1

m133275

1

CCK109

9

m133588

9

GA

8

m134260

8

5/31/2017

DAS

28

9-89

MAR 23 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
		OTHER : ☐			

Mario Poulin

647.3303

W/O 143503

From: Pablo Bravo
Sent: Thursday, March 24, 2016 2:32 PM
To: Mario Poulin; Jean-Luc Menard
Cc: Shirley Hay; Melanie Fauteux; Marc Bellavance; David Duval; Joe Bains
Subject: RE: Rivets

Mario,

Using -2 should be acceptable.

Regards,
Pablo

(CR3212-4-2)

From: Mario Poulin
Sent: Thursday, March 24, 2016 11:30 AM
To: Jean-Luc Menard; Pablo Bravo
Cc: Shirley Hay; Melanie Fauteux; Marc Bellavance; David Duval
Subject: RE: Rivets

Good afternoon,

Any news on this, we need to ship kit on 29th

Thanks,

Mario

From: Jean-Luc Menard
Sent: Thursday, March 24, 2016 8:49 AM
To: Pablo Bravo <pbravo@dartaero.com>
Cc: Shirley Hay <shay@dartaero.com>; Melanie Fauteux <mfauteux@dartaero.com>; Mario Poulin <mpoulin@dartaero.com>; Marc Bellavance <mbellavance@dartaero.com>; David Duval <dduval@dartaero.com>
Subject: RE: Rivets

Hi Pablo,
See below, that series rivet only starts at -2 as per our purchaser, is using a -2 an acceptable deviation?
If yes, I will issue an ECR.
Thx
JL

From: David Duval
Sent: Thursday, March 24, 2016 8:28 AM
To: Jean-Luc Menard <jmenard@dartaero.com>
Cc: Shirley Hay <shay@dartaero.com>; Melanie Fauteux <mfauteux@dartaero.com>; Mario Poulin <mpoulin@dartaero.com>; Marc Bellavance <mbellavance@dartaero.com>
Subject: RE: Rivets

Item #36 601.3082 (CR3212-4-1)

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition			
				Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : ☐ _____					

DAS
27
9-89

UNINCORPORATED ECN(S)

01728, 04845, 04881

-
- Technical drawing of a mechanical assembly, likely a structural component. The drawing includes several callouts and dimensions:
- Callout A:** Two arrows pointing to specific locations on the top edge of the assembly.
 - Callout B:** Two arrows pointing to specific locations on the bottom edge of the assembly.
 - Callout C:** A label pointing to a diagonal structural member.
 - Callout D:** A label pointing to a horizontal structural member.
 - Dimensions:**
 - A dimension of 5 ± 0.4 is indicated near the diagonal member.
 - A dimension of 2 ± 0.4 is indicated near the top edge.
 - Other Labels:**
 - DETAIL C:** A label indicating a detailed view of the assembly.
 - 447-3701 SHOWN:** A label at the bottom right corner.

[illegible]

REV					DESCRIPTION	DATE	APPROVED BY
N/C					INITIAL RELEASE	DATE	BY
16	16	16	41	601-2207	NUT/PLATE RIVET	00206453-3-03	
12	12	12	40	601-2491	NUT/PLATE RIVET	00206453-3-04	
7	4	4	39	601-1066	CHERRY RIVET	002012-4-3	
17	17	17	38	601-1065	CHERRY RIVET	002012-4-3	
5	6	6	37	601-1004	CHERRY RIVET	002012-4-3	
6	6	6	36	601-3082	CHERRY RIVET	002012-4-3	
2	2	2	35	601-1074	BOLT	002012-4-3	
8	8	8	34	601-7826	BOLT	002012-4-3	
3	3	3	33	601-2833	BOLT	002012-4-3	
1	1	1	32	601-3673	CONNECTOR	002012-4-3	
8	8	8	31	601-2419	SCREW	002012-4-3	
1	1	1	30	601-3070	SCREW	002012-4-3	
2	2	2	29	601-2893	SCREW	002012-4-3	
14	14	14	28	601-3089	SCREW	002012-4-3	
16	16	16	27	601-2263	SCREW	002012-4-3	
42	42	42	26	601-3855	SCREW	002012-4-3	
12	12	12	25	601-2196	SCREW	002012-4-3	
157	157	157	24	601-7807	WASHER	002012-4-3	
34	34	34	23	601-2754	WASHER	002012-4-3	
1	1	1	22	601-4313	RH UPPER STRUT	002012-4-3	
1	1	1	21	601-4312	LH UPPER STRUT	002012-4-3	
1	1	1	20	601-4310	LH LOWER STRUT	002012-4-3	
1	1	1	19	601-4311	RH LOWER STRUT	002012-4-3	
1	1	1	18	601-4212	PEXEL	002012-4-3	
1	1	1	17	601-3211	BRACKET RH	002012-4-3	
1	1	1	16	601-3210	BRACKET LH	002012-4-3	
1	1	1	15	601-4124	SHIM	002012-4-3	
2	2	2	14	601-4125	SHIM	002012-4-3	
2	2	2	13	601-4126	SHIM	002012-4-3	
1	1	1	12	601-4123	CUP	002012-4-3	
1	1	1	11	601-4122	CUP	002012-4-3	
1	1	1	10	601-4121	DOUBLER	002012-4-3	
1	1	1	9	601-4120	DOUBLER	002012-4-3	
1	1	1	8	601-4011	WIPER-DEFLECTOR LH	002012-4-3	
1	1	1	7	601-3900	WIPER-DEFLECTOR RH	002012-4-3	
1	1	1	6	601-3905	DEFLECTOR	002012-4-3	
1	1	1	5	601-4410	RAIL	002012-4-3	
1	1	1	4	601-3804	LOWER CUTTER ASSY HIGH	002012-4-3	
1	1	1	3	601-3803	LOWER CUTTER ASSY LOW	002012-4-3	
1	1	1	2	601-3802	212 UPPER CUTTER ASSY	002012-4-3	
1	1	1	1	601-3801	412 UPPER CUTTER ASSY	002012-4-3	
601-3704					204, 205, 212 CABLE CUTTERS KIT HIGH		
601-3703					204, 205, 212 CABLE CUTTERS KIT LOW		
601-3702					412 CABLE CUTTERS KIT HIGH		
601-3701					412 CABLE CUTTERS KIT LOW		
3704					204, 205, 212 CABLE CUTTERS KIT HIGH		
3703					204, 205, 212 CABLE CUTTERS KIT LOW		
3702					412 CABLE CUTTERS KIT HIGH		
3701					412 CABLE CUTTERS KIT LOW		
FIND #					PART #	DESCRIPTION	MAT'L SPEC.
QTY					PARTS LIST		
NEXT ASSY (S)					APICAL INDUSTRIES		
ORIGINAL ENT. 10-20-2008					2608 TEMPLE HEIGHTS DR.		
DRAWN BY J. JACKSON					OCEANSIDE, CA 92066-3512 (760) 724-5312		
DESIGNED BY J. JACKSON					412 CABLE CUTTERS KIT		
APPROVED BY J. JACKSON					601-3700		
DATE 10-20-2008					SCALE NONE		
CONTRACT NO.					SHEET 1 OF 1		
INTER-SERVICE SPECIFICATIONS AND STANDARDS TO BE USED IN THE PREPARATION OF THIS PROJECT DETAILS FOR					601-3700		